

What is Claimed is:

1. An ink receiving medium comprising:
a macroporous substrate having a fluid management system and having a pigment management system in contact with surfaces of macropores of the substrate therein.
2. The ink receiving medium according to claim 1 wherein the pigment management system comprises water-soluble multivalent metal salt.
3. The ink receiving medium according to claim 1 wherein the fluid management system comprises surfactant.
4. The ink receiving medium according to claim 1 wherein the macroporous substrate has an average pore size of from about 3 micrometers to about 5 millimeters.
5. The ink receiving medium according to claim 3 wherein said surfactant is non-ionic, cationic, anionic, or a combination of anionic and non-ionic surfactants.
6. The ink receiving medium according to claim 3 wherein said surfactant is selected from fluorochemical, silicone and hydrocarbon based surfactants, and combinations thereof.
7. The ink receiving medium according to claim 2 wherein the pigment management system further comprises an opacifying pigment.
8. The ink receiving medium according to claim 2 wherein said water-soluble multivalent metal salt is aluminum sulfate, aluminum nitrate, gallium nitrate, ferrous sulfate, chromium sulfate, zirconium sulfate, magnesium sulfophthalate, copper sulfophthalate, zirconium sulfophthalate, zirconium phthalate, zinc sulfate, zinc acetate,

zinc chloride, calcium chloride, calcium bromide, magnesium sulfate, magnesium chloride, aluminum sulfophthalate, aluminum sulfoisophthalate, or combinations thereof.

9. The ink receiving medium according to claim 1 wherein the fluid management system comprises surfactant and the surfactant is a hydrocarbon based anionic surfactant.

10. The ink receiving medium according to claim 9 wherein said surfactant comprises sodium salt of dioctyl sulfosuccinate.

11. The ink receiving medium according to claim 10 wherein the pigment management system comprises water-soluble multivalent salt and said salt comprises aluminum sulfate.

12. An ink receiving medium/ink set comprising a macroporous substrate impregnated with a composition comprising water-soluble multivalent salt and surfactant, and an ink that contains pigment colorants.

13. The ink receiving medium/ink set according to claim 12 wherein the macroporous substrate has an average pore size of from about 3 micrometers to about 5 millimeters.

14. The ink receiving medium/ink set according to claim 13 wherein the water-soluble multivalent metal salt is aluminum sulfate, aluminum nitrate, gallium nitrate, ferrous sulfate, chromium sulfate, zirconium sulfate, magnesium sulfophthalate, copper sulfophthalate, zirconium sulfophthalate, zirconium phthalate, zinc sulfate, zinc acetate, zinc chloride, calcium chloride, calcium bromide, magnesium sulfate, magnesium chloride, aluminum sulfophthalate, aluminum sulfoisophthalate, or combinations thereof.

15. The ink receiving medium/ink set according to claim 14 wherein the surfactant is selected from fluorochemical, silicone and hydrocarbon based surfactants, and combinations thereof.

16. A method of making an ink receiving medium comprising the steps of:

providing a macroporous substrate;
applying a solution comprising surfactant and water-soluble multivalent metal salt onto a surface of said substrate; and
removing solvent from said applied solution.

5

17. The method according to claim 16 wherein said surfactant is present in the solution in an amount of from about 0.01 to about 10 parts by weight.

18. The method according to claim 17 wherein said water-soluble multivalent metal salt is present in solution in an amount of from about 0.01 to about 50 parts by weight.

19. An imaged ink receiving medium comprising the ink receiving medium of claim 1 having ink colorant fixed thereon.

20. The imaged receiving medium of claim 19 wherein said image is waterfast.

21. An ink receiving medium comprising a macroporous substrate having a pigment management system and an optional fluid management system wherein the pigment management system is a non-aqueous solvent soluble metal salt.

ADD AT